Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1. (Currently amended) An immunotoxin comprising a cytotoxin attached to an anti-gp120 antibody having the binding specificity to the CD4 binding site of gp120 of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2) and a minimum binding affinity to gp-120 of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2), wherein said immunotoxin specifically binds to and kills mammalian cells infected with HIV-1.
- 2. (Currently amended) The immunotoxin of claim 1, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin <u>A</u>.
- 3. (Currently amended) The immunotoxin of claim 2, wherein said cytotoxin is a modified *Pseudomonas* exotoxin A.
- 4. (Currently amended) The immunotoxin of claim 3, wherein said modified *Pseudomonas* exotoxin <u>A</u> is selected from the group consisting of PE38, PE40, PE38KDEL (KDEL = SEQ ID NO:9), and PE38REDL (RDEL = SEQ ID NO:10).
- 5. (Currently amended) The immunotoxin of claim 4, wherein said modified *Pseudomonas* exotoxin <u>A</u> is PE38.
- 6. (Original) The immunotoxin of claim 1, wherein said antibody is selected from the group consisting of a single-chain Fv (scFv), a single-chain Fab (scFab), and a disulfide stabilized Fv (dsFv).
- 7. (Original) The immunotoxin of claim 6, wherein said antibody is a recombinantly expressed single-chain Fv.

- 8. Canceled
- 9. (Original) The immunotoxin of claim 1, wherein said immunotoxin is a fusion protein.
 - 10. Canceled
- 11. (Original) The immunotoxin of claim 1, wherein said immunotoxin is suspended or dissolved in a pharmaceutically acceptable carrier or excipient.
 - 12-18. Canceled.
- 19. (Withdrawn-currently amended) A single chain Fv antibody having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).
- 20. (Withdrawn-currently amended) The antibody of claim 19, wherein said antibody has the amino acid sequence of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2) or conservative substitutions thereof.
- 21. (Withdrawn- currently amended) The antibody of claim 20, wherein said antibody is 3B3(Fv) Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).
- 22. (Withdrawn- currently amended) A nucleic acid that encodes a single chain Fv antibody having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).
- 23. (Withdrawn- currently amended) The nucleic acid of claim 22, wherein said antibody has the amino acid sequence of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2) or conservative substitutions thereof.

24. (Withdrawn- currently amended) The nucleic acid of claim 20, wherein said nucleic acid encodes the 3B3 antibody (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).

25-51. Canceled.

- 52. (Currently amended) A kit for killing cells that display a gp120 protein, said kit comprising a container containing an immunotoxin comprising a cytotoxin attached to an anti-gp120 antibody having the binding specificity to the CD4 binding site of gp120 of 3B3 Fv (SEQ ID NO:1) and a minimum binding affinity to gp-120 of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2), wherein said immunotoxin specifically binds to and kills mammalian cells infected with HIV-1.
- 53. (Currently amended) The kit of claim 52, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin <u>A</u>.
- 54. (Currently amended) The kit of claim 53, wherein said cytotoxin is a modified *Pseudomonas* exotoxin A.
- 55. (Currently amended) The kit of claim 53, wherein said immunotoxin is 3B3(Fv) Fv SEQ ID NO:1) (which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2) attached to a modified *Pseudomonas* exotoxin A.
 - 56. Canceled.
- 57. (Previously presented) An immunotoxin of claim 1, wherein said immunotoxin is a disulfide-stabilized ("ds") FV.
 - 58. Canceled
- 59. (Withdrawn- previously presented) A nucleic acid that encodes a single chain fusion protein, said nucleic acid comprising:

- (a) a nucleic acid sequence that encodes a single-chain antibody having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2); and
 - (b) a nucleic acid sequence that encodes a cytotoxin.
- 60. (Withdrawn- currently amended) A nucleic acid of claim 59, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin A.
- 61. (Withdrawn- currently amended) A nucleic acid of claim 59, wherein said modified *Pseudomonas* exotoxin <u>A</u> is selected from the group consisting of PE38, PE40, PE38KDEL (KDEL = SEQ ID NO:9), and PE38REDL (RDEL = SEQ ID NO:10).
- 62. (Withdrawn- currently amended) A nucleic acid of claim 61, wherein said modified *Pseudomonas* exotoxin <u>A</u> is PE38.
- 63. (Withdrawn) A nucleic acid of claim 59, wherein said antibody is selected from the group consisting of a single-chain Fv (scFv), a single-chain Fab (scFab), and a disulfide stabilized Fv (dsFv).
- 64. (Withdrawn) A nucleic acid of claim 63, wherein said antibody is a recombinantly expressed single chain Fv.
 - 65. (Withdrawn) A nucleic acid of claim 63, wherein said antibody is a dsFv.
 - 66-67. Canceled
- 68. (Currently amended) A composition, said composition comprising: a pharmaceutically acceptable carrier or excipient; and

an immunotoxin comprising a cytotoxin attached to an anti-gp120 antibody having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).

- 69. (Currently amended) A composition of claim 68, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin A.
- 70. (Currently amended) A composition of claim 69, in which said modified *Pseudomonas* exotoxin <u>A</u> is selected from the group consisting of PE38, PE40, PE38KDEL (KDEL = SEQ ID NO:9), and PE38REDL (RDEL = SEQ ID NO:10).
- 71. (Currently amended) A composition of claim 70, wherein said modified *Pseudomonas* exotoxin <u>A</u> is PE38.
- 72. (Previously presented) A composition of claim 68, wherein said antibody is selected from the group consisting of a single-chain Fv (scFv), a single-chain Fab (scFab), and a disulfide stabilized Fv (dsFv).
- 73. (Previously presented) A composition of claim 72, wherein said antibody is a recombinantly expressed single-chain Fv.
- 74. (Currently amended) A composition of claim 73, wherein said antibody is 3B3(Fv) Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).
- 75. (Previously presented) A composition of claim 72, wherein said antibody is a dsFv.
 - 76. Canceled.
- 77. (Previously presented) A composition of claim 72, wherein said immunotoxin is a fusion protein.
 - 78. Canceled.

- 79. (Withdrawn- currently amended) A method of killing or inhibiting the growth of a cell displaying a gp120 protein or fragment thereof, said method comprising contacting said cell with an immunotoxin comprising a cytotoxin attached to an anti-gp120 antibody having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).
- 80. (Withdrawn- currently amended) A method of claim 79, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin <u>A</u>.
- 81. (Withdrawn- currently amended) A method of claim 80, wherein said modified *Pseudomonas* exotoxin <u>A</u> is selected from the group consisting of PE38, PE40, PE38KDEL (KDEL = SEQ ID NO:9), and PE38REDL (RDEL = SEQ ID NO:10).
- 82. (Withdrawn- currently amended) A method of claim 81, wherein said modified *Pseudomonas* exotoxin <u>A</u> is PE38.
- 83. (Withdrawn) A method of claim 79, wherein said antibody is selected from the group consisting of a single-chain Fv (scFv), a single-chain Fab (scFab), and a disulfide stabilized Fv (dsFv).
- 84. (Withdrawn) A method of claim 83, wherein said antibody is a recombinantly expressed single-chain Fv.
 - 85. (Withdrawn) A method of claim 83, wherein said antibody is 3B3(Fv).
 - 86. (Withdrawn) A method of claim 83, wherein said antibody is a dsFv.
 - 87. (Withdrawn) A method of claim 83, wherein said antibody is 3B3(dsFv).
- 88. (Withdrawn) A method of claim 83, wherein said immunotoxin is a fusion protein.

89. Canceled

90. (Withdrawn- previously presented) A method of killing or inhibiting the growth of cells bearing gp120 protein or fragment thereof, said method comprising administering to an organism containing said cells a composition comprising:

a pharmaceutically acceptable carrier or excipient; and
an immunotoxin comprising a cytotoxin attached to an anti-gp120 antibody
having the binding specificity of 3B3 Fv (SEQ ID NO:1 which 3B3 Fv consists of a VH chain
and a VL chain as encoded by SEQ ID NO:2) and minimum affinity of 3B3 Fv (SEQ ID NO:1
which 3B3 Fv consists of a VH chain and a VL chain as encoded by SEQ ID NO:2).

- 91. (Withdrawn- currently amended) A method of claim 90, wherein said cytotoxin is selected from the group consisting of ricin, abrin, a modified diphtheria toxin, and a modified *Pseudomonas* exotoxin <u>A</u>.
- 92. (Withdrawn- currently amended) A method of claim 91, wherein said modified *Pseudomonas* exotoxin <u>A</u> is selected from the group consisting of PE38, PE40, PE38KDEL (KDEL = SEQ ID NO:9), and PE38REDL (RDEL = SEQ ID NO:10).
- 93. (Withdrawn- currently amended) A method of claim 91, wherein said modified *Pseudomonas* exotoxin A is PE38.
- 94. (Withdrawn) A method of claim 90, wherein said antibody is selected from the group consisting of a single-chain Fv (scFv), a single-chain Fab (scFab), and a disulfide stabilized Fv (dsFv).
- 95. (Withdrawn) A method of claim 94, wherein said antibody is a recombinantly expressed single-chain Fv.
 - 96. (Withdrawn) A method of claim 94, wherein said antibody is 3B3(Fv).
 - 97. (Withdrawn) A method of claim 94, wherein said antibody is a dsFv.

- 98. Canceled.
- 99. (Withdrawn) A method of claim 90, wherein said immunotoxin is a fusion protein.
 - 100. Canceled.
- 101. (Withdrawn) A method of claim 90, further comprising administering to said organism a protease inhibitor.
- 102. (Withdrawn) A method of claim 90, further comprising administering to said organism a reverse transcriptase inhibitor.
- 103. (Withdrawn) A method of claim 90, further comprising administering to said organism both a protease inhibitor and a reverse transcriptase inhibitor and then withdrawing the reverse transcriptase inhibitor while maintaining protease inhibitor dosing during administration of said composition.